

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	8	((("6359387") or ("4410890") or ("6449371")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/09/07 10:04
S2	1947	MP3 adj player	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 09:23
S3	170	(MP3 adj player) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 09:25
S4	6	((MP3 adj player) and @ad<"20000512") and (control near (gain or volume))	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 09:28
S5	102	mp3 and (automatic adj (gain or volume))	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 09:31
S6	16	(mp3 and (automatic adj (gain or volume))) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 09:29

S7	103	(mp3 or (mpeg adj layer3) or (mpeg adj layer-3) or (mpeg adj layer adj three))and (automatic adj (gain or volume))	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 09:33
S8	119	(mp3 or (mpeg adj layer (((MP3 adj player) and @ad<"20000512") and (control near (gain or volume)))) or (mpeg adj layer-3) or (mpeg adj layer adj three))and (automatic adj (gain or volume))	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 09:33
S9	27	((mp3 or (mpeg adj layer (((MP3 adj player) and @ad<"20000512") and (control near (gain or volume)))) or (mpeg adj layer-3) or (mpeg adj layer adj three))and (automatic adj (gain or volume))) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 09:42
S10	8405	(mp3 or (mpeg adj layer (((MP3 adj player) and @ad<"20000512") and (control near (gain or volume)))) or (mpeg adj layer adj three))	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 09:47
S11	1214	((mp3 or (mpeg adj layer (((MP3 adj player) and @ad<"20000512") and (control near (gain or volume)))) or (mpeg adj layer adj three)) and feedback	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 09:44
S12	1965	((mp3 or (mpeg adj layer (((MP3 adj player) and @ad<"20000512") and (control near (gain or volume)))) or (mpeg adj layer adj three)) and feedback) and (volume or gain) control	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 09:45
S13	1142	((mp3 or (mpeg adj layer (((MP3 adj player) and @ad<"20000512") and (control near (gain or volume)))) or (mpeg adj layer adj three)) and feedback) and (volume or gain) control)) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 09:45

SI4	127	((((mp3 or (mpeg adj layer (((MP3 adj player) and @ad<"20000512") and (control near (gain or volume)))) or (mpeg adj layer adj three))) and feedback) and (volume or gain) adj control	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 09:46
SI5	22	(((((mp3 or (mpeg adj layer (((MP3 adj player) and @ad<"20000512") and (control near (gain or volume)))) or (mpeg adj layer adj three))) and feedback) and (volume or gain) adj control) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 09:46
SI6	8284	(mp3 or ("mpeg layer 3") or ("mpeg layer three") or ("mpeg layer III"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 09:49
SI7	1536	((mp3 or ("mpeg layer 3") or ("mpeg layer three") or ("mpeg layer III"))) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 09:48
SI8	0	((((mp3 or ("mpeg layer 3") or ("mpeg layer three") or ("mpeg layer III"))) and @ad<"20000512") and feedback near (automatic adj (gain or volume)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 09:49
SI9	0	(((((mp3 or ("mpeg layer 3") or ("mpeg layer three") or ("mpeg layer III"))) and @ad<"20000512") and feedback near6 (automatic adj (gain or volume)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 09:49
SI20	3	(((((mp3 or ("mpeg layer 3") or ("mpeg layer three") or ("mpeg layer III"))) and @ad<"20000512") and feedback same (automatic adj (gain or volume)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 09:49

S21	1949	(mp3 or ("mpeg layer 3") or ("mpeg layer three") or ("mpeg layer III")) adj player	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 09:50
S22	170	((mp3 or ("mpeg layer 3") or ("mpeg layer three") or ("mpeg layer III")) adj player) and @ad<"20000512"	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 11:23
S23	2	"6407325".URPN.	USPAT	OR	OFF	2004/08/09 10:41
S24	2	("6256303").PN.	US:PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 10:49
S25	13	"5272525"   "5299264"   "5319716"   "5349386"   "5410735"   "5477539"   "5491839"   "5581617"   "5619582"   "5668658"   "5788696"   "6067039"   "6137995").PN.	USPAT	OR	OFF	2004/08/09 10:49
S26	3	"5640548"	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 10:54
S27	28	diamond adj rio	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 11:24
S28	9	mp3 adj player and ipod	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 11:30

S29	1363	computer and (mp3 adj player)	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 11:30
S30	49	(computer and (mp3 adj player) ) and sound adj card	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 11:30
S31	0	((computer and (mp3 adj player) ) and sound adj card) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 11:30
S32	170	(mp3 adj player) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 11:31
S33	87	winamp	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 11:31
S34	12	winamp and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 11:34
S35	11	rio adj mp3 adj player	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 11:35
S36	0	"20020078375".URPN.	USPAT	OR	OFF	2004/08/09 11:35

S37	85	portable adj mp3 adj player	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 12:04
S38	4	("6061306"   "6252830"   "6292440"   "6316912").PN.	USPAT	OR	OFF	2004/08/09 11:39
S39	36	("level adjust" or "gain adjust" or "volume adjust") same output adj detect\$4	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 12:05
S40	34	((("level adjust" or "gain adjust" or "volume adjust") same output adj detect\$4) and @ad<"20000513"	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 12:05
S41	34	((("level adjust" or "gain adjust" or "volume adjust") same output adj detect\$4) and @ad<"20000512"	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 12:06
S42	5	((("level adjust" or "gain adjust" or "volume adjust") same output adj detect\$4) and @ad<"20000512") and audio	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 12:06
S43	1059	audio same output adj detect\$5	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 12:07
S44	307	audio near5 output adj detect\$5	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 12:07

S45	338	audio near5 (output adj detect\$5)	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 12:07
S46	1059	audio same (output adj detect\$5)	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 12:07
S47	290	(audio near5 (output adj detect\$5)) and @ad<"20000512"	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 12:09
S48	40	(audio adj output adj device) near5 detect\$5	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 12:10
S49	32	((audio adj output adj device) near5 detect\$5) and @ad<"20001512"	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 12:10
S50	0	detect adj audio adj output adj device	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 12:11
S51	1	detect\$5 adj audio adj output adj device	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 12:11

S52	2	determine adj audio adj output adj device	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 13:36
S53	0	"20010049566".URPN.	USPAT	OR	OFF	2004/08/09 13:18
S54	0	sense adj signal and audio adj ouput adj device	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 13:37
S55	0	(determine or design\$4 or decid\$3 or resolve or establish) adj audio adj ouput adj device	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 13:39
S56	0	(determine or design\$4 or decid\$3 or resolve or establish) same audio adj ouput adj device	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 13:39
S57	4	(determine or design\$4 or decid\$3 or resolve or establish) adj audio adj output adj device	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 13:40
S58	4	(determine or design\$4 or decid\$3 or resolve or establish or recognit \$4) near audio adj output adj device	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 13:41
S59	22	(determine or design\$4 or decid\$3 or resolve or establish or recognit \$4) near6 audio adj output adj device	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 13:42



S60	1653	((determine or design\$4 or decid\$3 or resolve or establish or recognit\$4) adj ((audio adj output adj device) or speaker or headphone or earphone)	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 13:45
S61	1113	((determine or design\$4 or decid\$3 or resolve or establish or recognit\$4) adj ((audio adj output adj device) or speaker or headphone or earphone)) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 13:43
S62	3	((((determine or design\$4 or decid\$3 or resolve or establish or recognit\$4) adj ((audio adj output adj device) or speaker or headphone or earphone)) and @ad<"20000512") and (mp3 or "mpeg layer 3" or "mpeg layer three" or "mpeg layer iii")	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 13:45
S63	253	(determine or designa\$4 or decid\$3 or resolve or establish) adj ((audio adj output adj device) or speaker or headphone or earphone) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 13:47
S64	7	("4549147"   "5008631"   "5216379"   "5532649"   "5661811"   "5796854"   "5910991").PN.	USPAT	OR	OFF	2004/08/09 13:54
S65	1	((mp3 adj player) near computer) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 14:53
S66	0	(computer adj mp3 adj player) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 14:53
S67	44	computer adj mp3 adj player	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 14:54

S68	0	"20030233509".URPN.	USPAT	OR	OFF	2004/08/09 14:55
S69	63	(mp3 adj player) near computer	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 14:57
S70	19	((mp3 adj player) near computer) not (computer adj mp3 adj player)	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 14:58
S71	1	(computer near mp3) and @ad<"20000512"	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 14:58
S72	41	(computer near5 mp3) and @ad<"20000512"	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 15:01
S73	1	(sound adj card near5 mp3) and @ad<"20000512"	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 15:02
S74	4	(sound adj card same mp3) and @ad<"20000512"	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 15:02
S75	4	((("6359987") or ("6449371"))).PN.	US:PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 15:15

S76	0	(headphone or earphone) near impedance near speaker	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 15:15
S77	1	headphone near speaker near impedance	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 15:20
S78	23	headphone near impedance	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 15:24
S79	7	("4549147"   "5008631"   "5216379"   "5532649"   "5661811"   "5796854"   "5910991").PNL	USPAT	OR	OFF	2004/08/09 15:23
S80	14	((("4549147") or ("5008631") or ("5216379") or ("5532649") or ("5661811") or ("5796854") or ("5910991")).PNL	US:PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 15:25
S81	1414	control near (headphone near ((determine or design\$4 or decid\$3 or resolve or establish) adj audio adj output adj device) speaker)	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 15:27
S82	1044	(control near (headphone near ((determine or design\$4 or decid\$3 or resolve or establish) adj audio adj output adj device) speaker)) and @ad<"20000512"	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 15:26
S83	0	determine near (control near (headphone near ((determine or design \$4 or decid\$3 or resolve or establish) adj audio adj output adj device) speaker)) and @ad<"20000512"	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 15:27

S84	9	(control near (headphone near5 speaker)) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 15:32
S85	5	(gain adj control) same depend\$5 and (speaker same headphone) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 15:34
S86	59	((increase or raise or boost) adj (gain or volume or level) or amplify) near (headphone or earphone or headset)	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 15:40
S87	42	((((increase or raise or boost) adj (gain or volume or level) or amplify) near (headphone or earphone or headset)) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 15:37
S88	0	((((increase or raise or boost) adj (gain or volume or level) or amplify) near (speaker)) and ((decrease or lower or diminish) adj (gain or volume or level) near (headphone or earphone or earpiece or headset))	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 15:41
S89	0	((((increase or raise or boost) adj (gain or volume or level) or amplify) near (speaker)) and ((decrease or lower or diminish) adj (gain or volume or level) near (headphone or earphone or earpiece or headset))	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/09 15:41
S90	3	((((increase or raise or boost) adj (gain or volume or level) or amplify) same(speaker)) and ((decrease or lower or diminish) adj (gain or volume or level) same(headphone or earphone or earpiece or headset))	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 10:25
S91	5	("5163161"   "5822686"   "5946635"   "6225898"   "6421389").PN.	USPAT	OR	OFF	2004/08/09 15:43

S92	3	((determine) near (gain or volume or output or amplitude)) near (audio adj output)	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 10:26
S93	73	((determine) near4 (gain or volume or output or amplitude)) near4 (audio adj output)	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 10:27
S94	3	(determine near (audio adj output adj device))	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 10:32
S95	0	"20010049566".URPN.	USPAT	OR	OFF	2004/08/10 10:28
S96	673	700/94	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 10:32
S97	257	700/94 and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 10:33
S98	0	(700/94 and @ad<"20000512") and determine adj output adj device	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 10:33
S99	13	(determine adj output adj device) and audio	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 10:34

SI00	5	((determine adj output adj device) and audio) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 10:35
SI01	7	(gain adj control) near audio adj output	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 10:35
SI02	5	(gain adj control) near (audio adj output)	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 10:57
SI03	479	((381/107).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 10:57
SI04	364	((381/107).CCLS.) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 11:45
SI05	263	((381/74).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 11:45
SI06	185	((381/74).CCLS.) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 11:49

SI07	44	((((381/74).CCLS.) and @ad<"20000512") and ((gain or volume or amplitude or loud\$5) adj control))	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 11:47
SI08	8	((((381/74).CCLS.) and @ad<"20000512") and (automatic adj(gain or volume or amplitude or loud\$5) adj control))	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 11:47
SI09	8	((((381/74).CCLS.) and @ad<"20000512") and (automatic adj (gain or volume or amplitude or loud\$5) adj control))	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 11:47
SI10	479	(381/107).CCLS.	US:PGPUB; USPAT; USOCP; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 11:50
SI11	1	("6654597".PN. and (((((increase or raise or boost) adj (gain or volume or level) or amplify) same(speaker)) and ((decrease or lower or diminish) adj (gain or volume or level) same(headphone or earphone or earpiece or headset)))) and @ad<"20000512"	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 11:50
SI12	1	((("6654597".PN. and (((((increase or raise or boost) adj (gain or volume or level) or amplify) same(speaker)) and ((decrease or lower or diminish) adj (gain or volume or level) same(headphone or earphone or earpiece or headset)))) and @ad<"20000512") and @ad<"20000512"	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 11:50
SI13	364	((381/107).CCLS.) and @ad<"20000512"	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 11:51

St14	3	high adj impedance adj (headphone or earphone or headset or (head adj phone) or (ear adj phone) or (head adj set))	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 11:53
St15	3	(high or large or great) adj impedance adj (headphone or earphone or headset or (head adj phone) or (ear adj phone) or (head adj set))	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 11:53
St16	40	impedance adj (headphone or earphone or headset or (head adj phone) or (ear adj phone) or (head adj set))	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/10 11:57
St17	0	"20030185400".URPN.	USPAT	OR	OFF	2004/08/10 11:54
St18	7	(detect or determine or discern or sense or perceive or distinguish or sense or identify) adj ("audio output device")	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/11 13:03
St19	1	amplified adj headphones	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/11 13:03
St20	51	(amplified or powered) adj (headphone! or earphone! or headset!)	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/11 13:05
St21	32	((amplified or powered) adj (headphone! or earphone! or headset!)) and @ac<"20000512"	US:PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/11 13:08



S122	3	unpowered adj speaker	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/11 13:08
S123	33	active adj (headset! or headphone! or earphone!)	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/11 13:16
S124	23	(active adj (headset! or headphone! or earphone!)) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/11 14:22
S125	3	(high adj impedance adj (headset! or headphone! or earphone!)) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/11 14:24
S126	55	(high adj impedance same (headset! or headphone! or earphone!)) and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/11 14:35
S127	68	(high adj impedance same (headset! or headphone! or earphone!))	USOCR	OR	OFF	2004/08/11 14:36
S128	2	(high adj impedance adj (headset! or headphone! or earphone!))	USOCR	OR	OFF	2004/08/11 14:36
S129	2	("6359987").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/12 09:13

S130	91	"8 ohm speaker" and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/12 09:35
S131	0	"2000 ohm" adj (headphone! or headset! or earphone! or head adj set! or head adj phone! or ear adj phone!)	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/12 09:36
S132	13	ohm adj (headphone! or headset! or earphone! or head adj set! or head adj phone! or ear adj phone!)	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2004/08/12 09:36
S135	5	"6359987"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2005/03/17 13:02
S136	3	((("6359987") or ("6449371") or ("4410890")).PN.	US-PGPUB; USPAT	OR	OFF	2005/03/17 13:02
S137	2	("6359987").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2005/06/22 10:53
S138	62	(headphone earphone earjack) with voltage with (speaker)	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2006/10/04 11:38
S139	31	S138 and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2006/10/04 11:29

S140	2	("5910991"   "6424875").PN. OR ("6885899").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/04 11:34
S141	526	(headphone earphone earjack) with voltage	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2006/10/04 11:38
S142	297	S141 and @ad<"20000512"	US-PGPUB; USPAT; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2006/10/04 11:38
S143	6	("4827221"   "5300892"   "5535281"   "5760652"   "5770973"   "5787182").PN. OR ("5850459").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/10/04 11:48
S144	1	("6,359,987").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/04 11:54
S145	1	("6934236").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/04 13:37
S146	372	(710/303).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/04 13:37
S147	0	("2006021637").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/10 09:53
S148	1	("2006021637").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/10 16:05
S149	1	("20040122840").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/11 09:50
S150	0	("6941181,6529787,6374148,6301513,6007228").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/11 09:51
S151	5	((("6941181") or ("6529787") or ("6374148") or ("6301513") or ("6007228"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/10/11 09:51
S152	1	("6359987").PN.	US-PGPUB; USPAT	OR	OFF	2008/03/04 11:11
S153	18	("4549147"   "5008631"   "5216379"   "5532649"   "5661811"   "5796854"   "5910991").PN. OR ("6359987").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/04 11:11
S154	12	("4583245"   "5661811").PN. OR ("5910991").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/04 11:12

SI55	0	JONG-KWANG-kim.in.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/04 11:52
SI56	10	"kim JONG-KWANG".in.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/03/04 11:52
SI57	1	("6359987").PN.	US-PGPUB; USPAT	OR	OFF	2008/09/30 11:08

10/2/2008 10:03:48 AM

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